U. S. Department of Agriculture - Forest Service
CENTRAL STATES FOREST EXPERIMENT STATION
Columbus, Ohio

Station Note
No. 18

December 8, 1934

A BLACK WALNUT VOLUME TABLE FOR CONTENTS IN MERCHANTABLE CUBIC FEET

Plantation Black Walnut
(Juglans nigra Linn.)
Central States Region

B. R. Lexen — 1930

Merchantable stem with bark
Cubic Feet
4.0" top d.o.b.

Diameter breast high	Total Height in Feet: 20	30	40	50	60	70	80	90	Basis: No. of Trees
	Volume in Cubic Feet								
Inches									
5	0.87	1.29	1.68	2.08	2.43	2.81			36
6	1.61	2.38	3.12	3.85	4.55	5.25			31
7	2.36	3.45	4.58	5.60	6.65	7.70			35
8		4.70	6.10	7.55	8.95	10.4	11.9		35
9		5.95	7.85	9.70	11.6	13.4	15.2		25
10		7.30	9.55	11.9	14.1	16.5	18.9		29
11			11.6	14.4	17.3	20.2	23.0	25.8	29
12			13.8	17.2	20.7	24.0	27.2	30.5	29
13			16.1	20.2	24.2	28.0	31.9	35.8	27
14			18.8	23.4	27.9	32.5	37.0	41.0	16
15			21.6	26.8	32.0	37.2	42.0	47.5	16
16				30.2	36.1	42.0	48.0	54.0	13
17				34.0	40.0	47.0	54.0	61.0	10
18				38.0	45.3	53.5	61.0	69.0	6
19				42.0	51.0	59.5	68.0	77.0	4
20				46.5	56.0	66.0	75.5	85.5	2
21				52.0	62.5	73.0	84.0	95.0	1
22				57.0	68.5	80.0	93.0	105	1
Basis: No. of Trees	2	27	45	64	96	86	24	1	345

Based on trees measured by Central States Forest Experiment Station in Kentucky, Indiana, Illinois and Iowa, under the supervision of L. F. Kellogg. Stump height 1.0 ft. Top diameter 4.0" d.o.b. Minimum merchantable length 4.0 ft. Volume measured by planimeter. Aggregate deviation: Chart 0.27% high. Average percentage deviation on 326 trees, 5.0" and over D.B.H., 5.4%. Block indicates extent of basic data. Prepared by the alinement chart method in the Washington Office.

This is the second of five volume tables for plantation black walnut prepared from the study of walnut throughout the Central States.